

Name: _____ Date: _____ Period: _____

Quadratic Equation

Standard Form: $y = ax^2 + bx + c$

Vertex Form: $y = (x - h)^2 + k$

1. $y = x^2 + 2$

Standard Form:

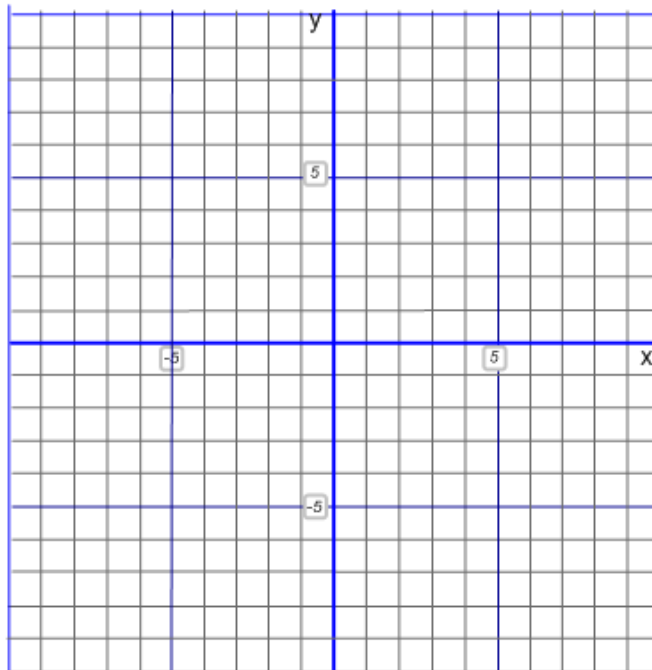
$a = \underline{\hspace{1cm}}, b = \underline{\hspace{1cm}}, c = \underline{\hspace{1cm}}$

Vertex Form: $h = \underline{\hspace{1cm}}, k = \underline{\hspace{1cm}},$

Create a table of values **(Fill in blanks)**

| x | $y = x^2 + 2$ | (x, y) |
|-----|---------------|----------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |
| 2 | | |

Plot the Points



2. $y = -x^2 + 4$

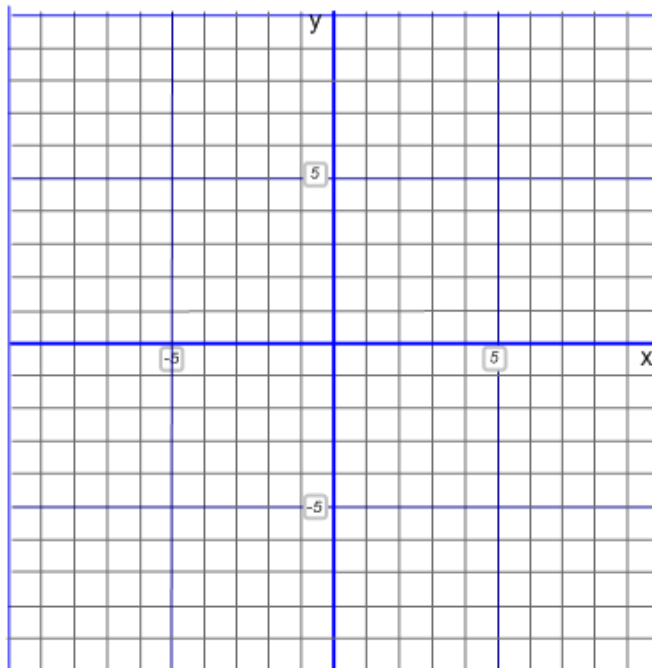
Standard Form:

Vertex Form:

Create a table of values **(Fill in blanks)**

| x | $y = -x^2 + 4$ | (x, y) |
|-----|----------------|----------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |
| 2 | | |

Plot the Points



1. $y = x^2 - 2$

Standard Form:

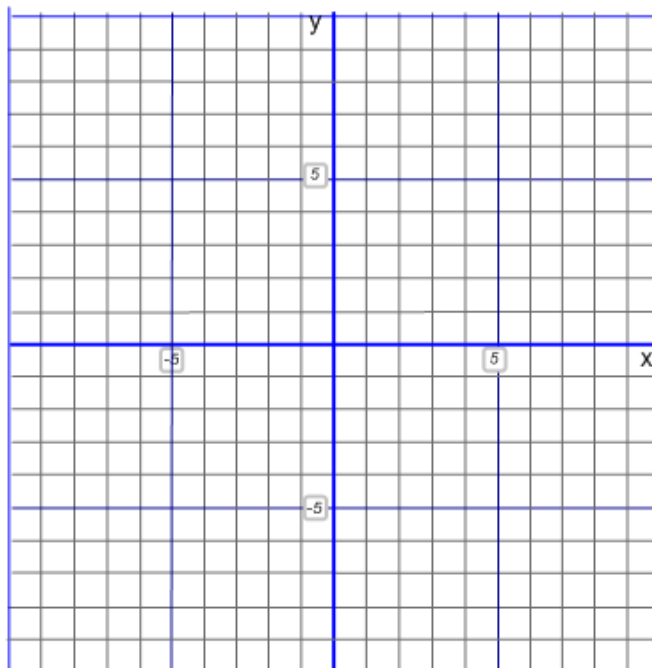
$a = \underline{\hspace{1cm}}, b = \underline{\hspace{1cm}}, c = \underline{\hspace{1cm}}$

Vertex Form: $h = \underline{\hspace{1cm}}, k = \underline{\hspace{1cm}},$

Create a table of values **(Fill in blanks)**

| x | $y = x^2 - 2$ | (x, y) |
|-----|---------------|----------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |
| 2 | | |

Plot the Points



2. $y = -x^2 - 2$

Standard Form:

Vertex Form:

Create a table of values **(Fill in blanks)**

| x | $y = -x^2 - 2$ | (x, y) |
|-----|----------------|----------|
| -2 | | |
| -1 | | |
| 0 | | |
| 1 | | |
| 2 | | |

Plot the Points

